AUTODOC CLUB

How to change front wheel bearing on **Opel Meriva X03** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
OPEL Meriva A (X03) 1.4 16V Twinport LPG (E75), OPEL Corsa C Hatchback (X01) 1.0 (F08, F68), OPEL Corsa C Hatchback (X01) 1.2 (F08, F68), OPEL Corsa C Hatchback (X01) 1.8 (F08, F68), OPEL Corsa C Hatchback (X01) 1.7 DTI (F08, F68), OPEL Corsa C Hatchback (X01) 1.7 DI (F08, F68), OPEL Corsa C Hatchback (X01) 1.4 (F08, F68), OPEL COMBO Box Body / Estate 1.7 DI 16V, OPEL Corsa C Van (X01) 1.2 16V (F08, W5L), OPEL Corsa C Van (X01) 1.7 DI 16V (F08, W5L), OPEL Corsa C Van (X01) 1.7 DTI 16V (F08, W5L), OPEL COMBO Box Body / Estate 1.6, OPEL COMBO Box Body / Estate 1.7 DTI 16V, OPEL Meriva A (X03) 1.8 (E75), OPEL Meriva A (X03) 1.7 DTI (E75), (+ 21)

The steps may slightly vary depending on the car design.

REPLACEMENT: WHEEL BEARING – OPEL MERIVA X03. TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- All-purpose cleaning spray
- Copper grease
- Torque wrench
- Combination spanner #16
- Combination spanner #18
- Drive socket # 16
- Drive socket # 17
- Drive socket # 18
- Drive socket # E20
- Drive socket # 30
- Torx bit T30
- Bush and bearing driver set
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Hammer
- Pin punch
- Crow bar
- Ball joint puller
- Circlip pliers
- Wheel chock

BUY TOOLS

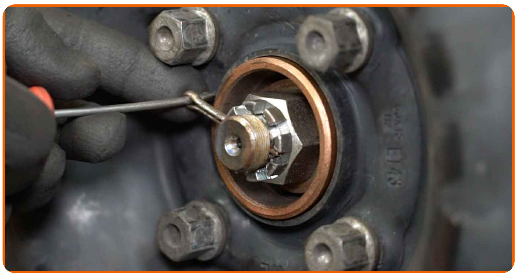
Replacement: wheel bearing – Opel Meriva X03. AUTODOC recommends:

- Do not re-use the bearing assembly of your Opel Meriva X03 car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – Opel Meriva X03 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Secure the wheels with chocks.

2 Remove the cotter pin. Use a crowbar.



3 Loosen the fastener of the driveshaft. Use a drive socket #30. Use a tap wrench.



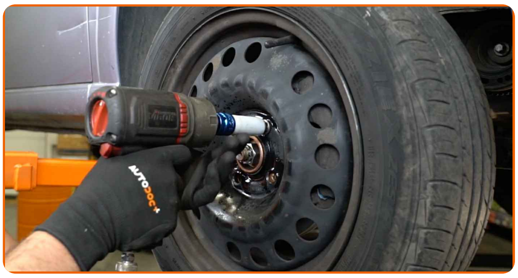
4 Loosen the wheel mounting bolts. Use wheel impact socket #17.



5 Raise the front of the car and secure on supports.



6 Unscrew the wheel bolts.



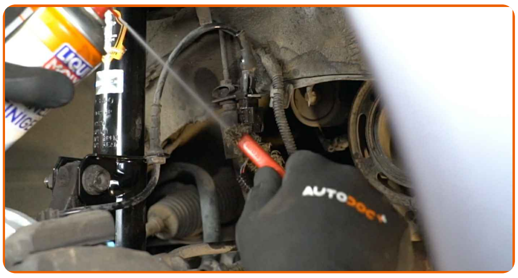
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. Opel Meriva X03

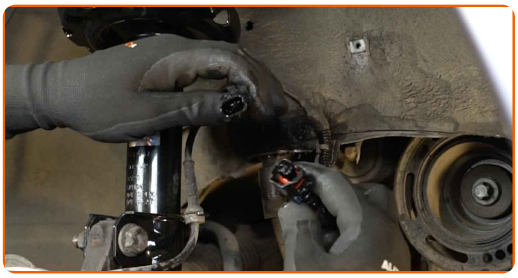
7 Remove the wheel.



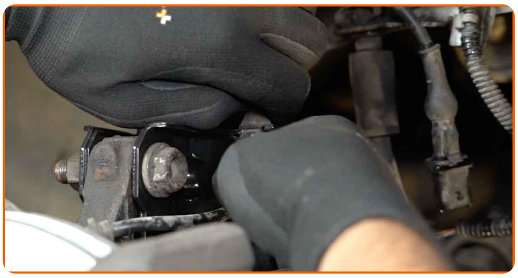
8 Treat the ABS sensor connector. Use all-purpose cleaning spray.



9 Detach the ABS sensor connector.



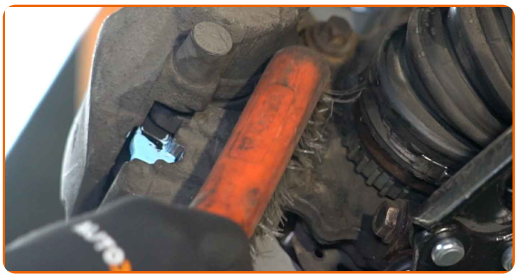
10 Disconnect the ABS sensor wiring.



11 Spread the brake pads. Use a crowbar.



12 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



13 Unscrew the caliper bracket fastening. Use a drive socket #E20. Use a ratchet wrench. Use a tap wrench.



14 Remove the brake caliper together with its bracket.

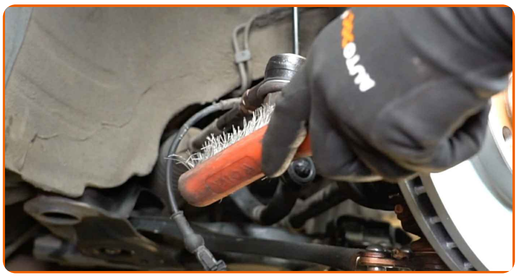


Replacement: wheel bearing – Opel Meriva X03. AUTODOC experts recommend:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

15

Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.



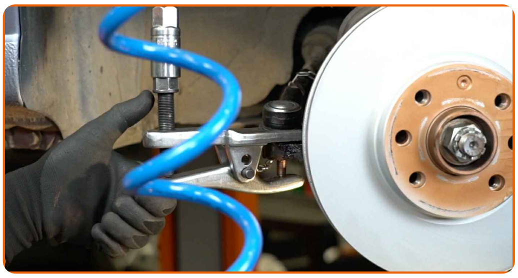
16

Unscrew the end fastening nut to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



17

Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.



18

Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.



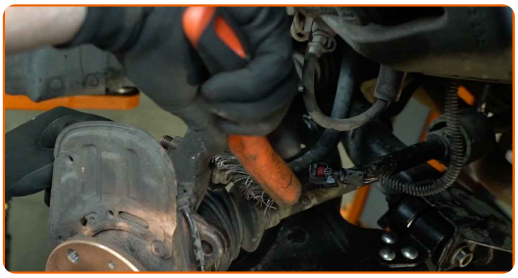
19 Unscrew the brake disc fastening. Use Torx T30. Use a ratchet wrench.



20 Remove the brake disc.



21 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



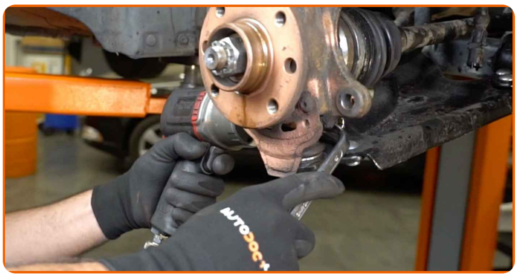
22 Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a tap wrench.



23 Remove the fastening bolt.



24 Unscrew the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.



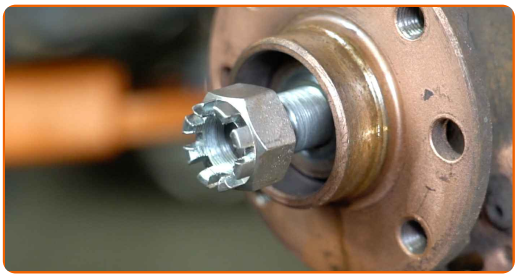
25 Remove the fastening bolt.



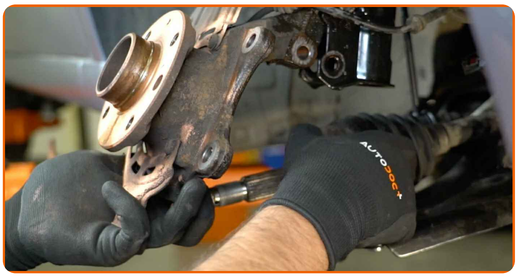
26 Disconnect the lower arm from the steering knuckle.



27 Unscrew the fastener connecting the drive shaft to the wheel hub.



28 Detach the driveshaft from the steering knuckle.



29 Remove the fastening bolt.



30 Remove the steering knuckle together with the hub.

31 Clean the fasteners of the brake disc cover. Use a wire brush. Use WD-40 spray.



32 Unscrew the fasteners of the brake disc cover. Use Torx T30.



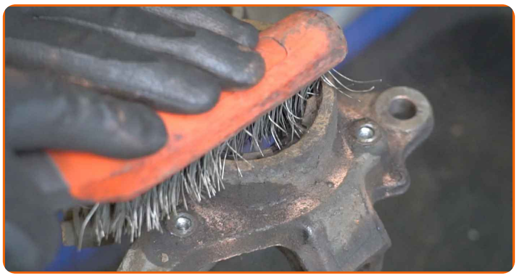
33 Remove the brake disc cover.



34 Remove the wheel hub from the steering knuckle. Use a bush and bearing driver set.



35 Clean the fasteners of the wheel hub bearing. Use a wire brush. Use WD-40 spray.



36 Remove the wheel hub bearing retaining ring. Use a pin punch. Use a hammer. Use a crowbar.



37

Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.



38

Press out the wheel hub bearing. Use a bush and bearing driver set.



39

Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.



40

Press the new bearing in the steering knuckle. Use a bush and bearing driver set.



Replacement: wheel bearing – Opel Meriva X03. Tip from AUTODOC experts:

- Check to make sure the wheel hub bearing is positioned correctly. Avoid its misalignment.
- Stop pressing on the surface of the bearing immediately after it has been fitted into its mounting seat.

41 Install the wheel hub bearing retaining ring. Use circlip pliers.



42 Clean the hub. Use WD-40 spray.



43 Pull the bearing inner race out of the wheel hub. Use a bearing separator. Use a bush and bearing driver set.

44 Clean the hub. Use WD-40 spray.

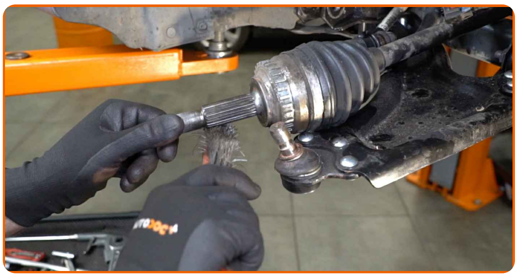
45 Install the wheel hub on the steering knuckle. Use a bush and bearing driver set.



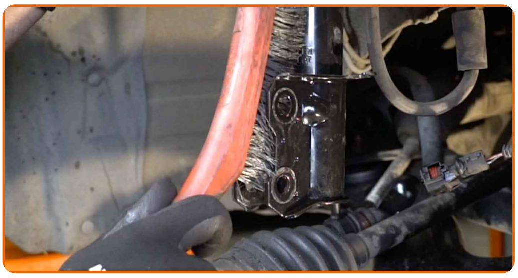
Replacement: wheel bearing – Opel Meriva X03. AUTODOC recommends:

- Make sure that the wheel hub is positioned correctly. Avoid any misalignment.

46 Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.



47 Treat the shock strut mounting seat on the steering knuckle. Use a wire brush. Use WD-40 spray.



48 Install the steering knuckle assembled with the wheel hub.

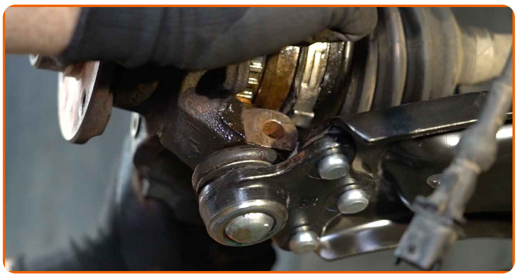


49 Install the fastening bolt.

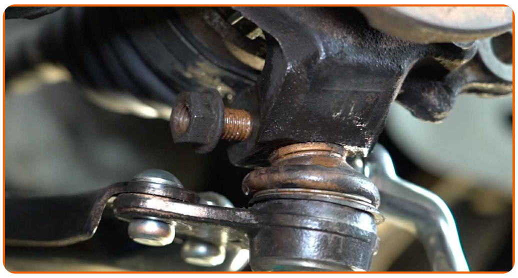
50 Install the drive shaft.



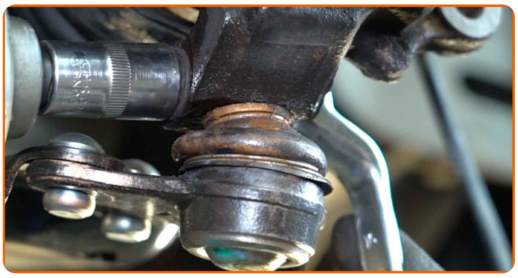
51 Connect the lower arm to the steering knuckle.



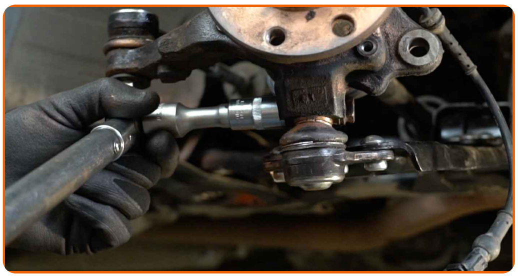
52 Install the fastening bolt.



53 Screw the fasteners of the ball joint. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.



54 Tighten the ball joint fastener. Use a combination spanner #16. Use a drive socket #16. Use a torque wrench. Tighten it to 55 Nm torque.



55

Install the fastening bolt.



56

Screw in the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



57

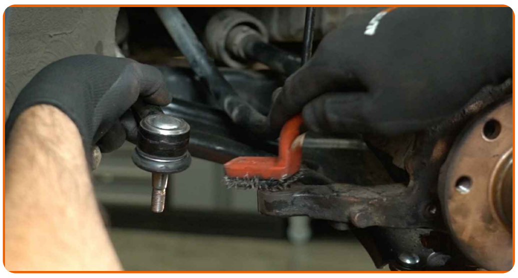
Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 80 Nm torque.+60°



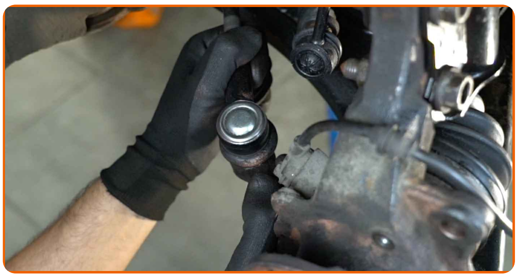
AUTODOC recommends:

- Important! Be sure to use new fasteners.

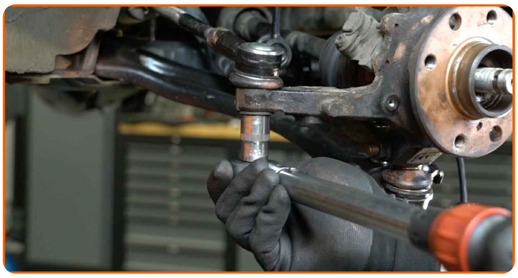
58 Clean the mounting seats of the tie rod end. Use a wire brush. Use WD-40 spray.



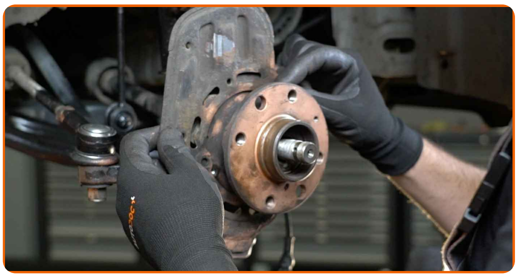
59 Connect the tie rod end to the steering knuckle.



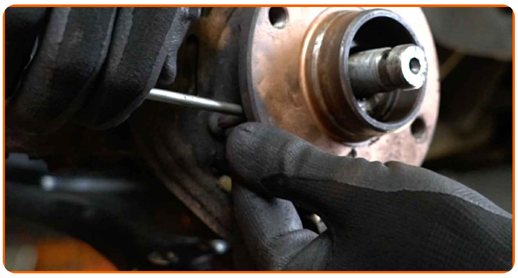
60 Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 35 nm torque.



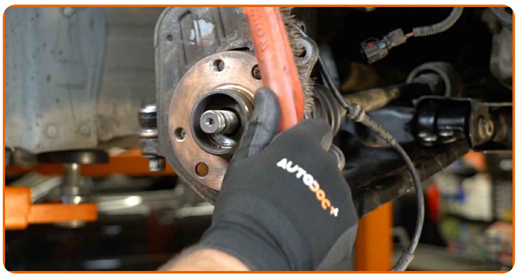
61 Install the brake disc cover.



62 Screw in the fasteners of the brake disc cover. Use Torx T30.



63 Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



64 Install the brake disc.



65 Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 8 Nm torque.



66

Clean the brake disk surface. Use a brake cleaner.

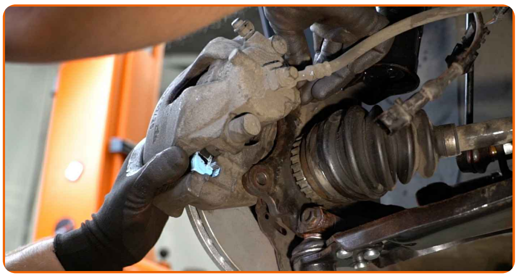


AUTODOC recommends:

- Replacement: wheel bearing – Opel Meriva X03. After applying the spray, wait a few minutes.

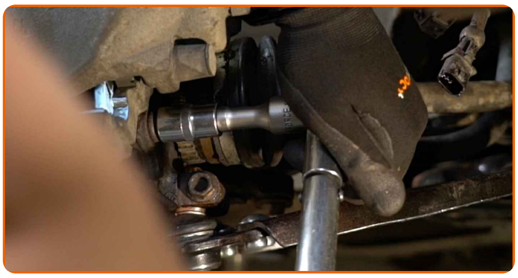
67

Install the brake caliper together with its bracket.



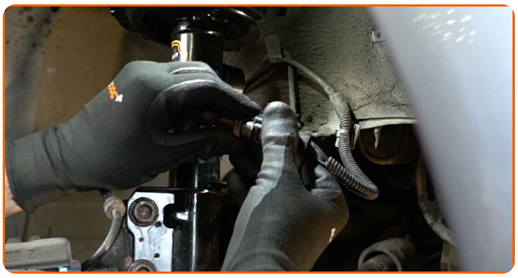
68

Tighten the brake caliper bracket. Use a drive socket #E20. Use a torque wrench. Tighten it to 100 Nm torque.

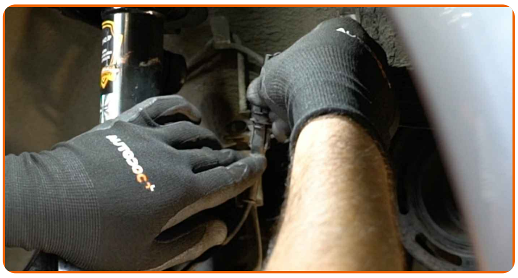


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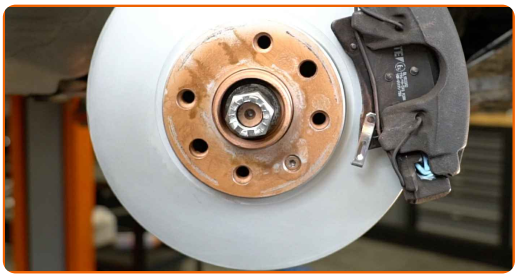
Attach the ABS sensor connector.



70 Connect the ABS sensor wiring.



71 Screw the nut of the drive shaft. Use a drive socket #30. Use a ratchet wrench.



72 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



73 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: wheel bearing – Opel Meriva X03. After applying the spray, wait a few minutes.

74 Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Opel Meriva X03

75 Screw in the wheel bolts. Use wheel impact socket #17.



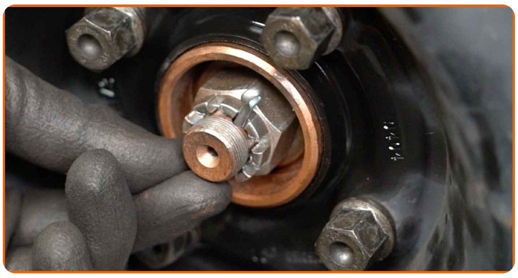
76 Lower the car.



77 Tighten the drive shaft nut. Use a drive socket #30. Use a torque wrench. Tighten it to 177 Nm torque.



78 Install the cotter pin. Use a crowbar.



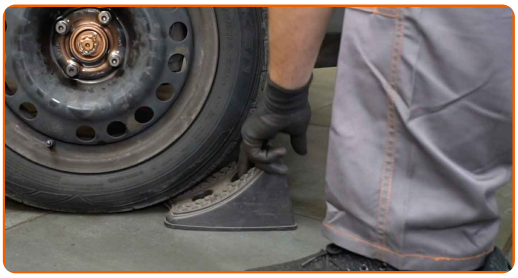
79 Treat the CV axle fastener. Use copper grease.



80 Tighten the wheel bolts using a criss-cross pattern. Use a torque wrench. Tighten it to 110 Nm torque.



81 Remove the jacks and chocks.

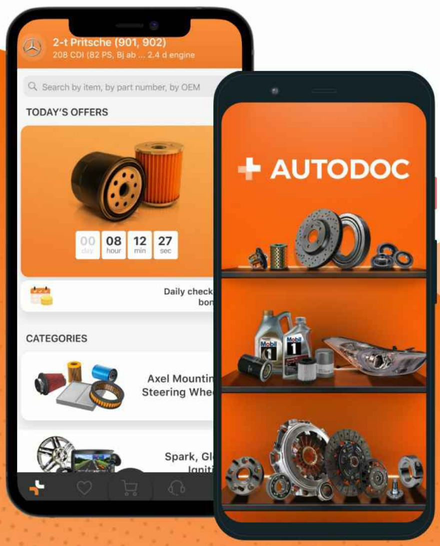


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